

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P157356

Luminaire Tested: **VST-F05-LED-E-U-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157356
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F05-LED-E-U-5MQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13548.4 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

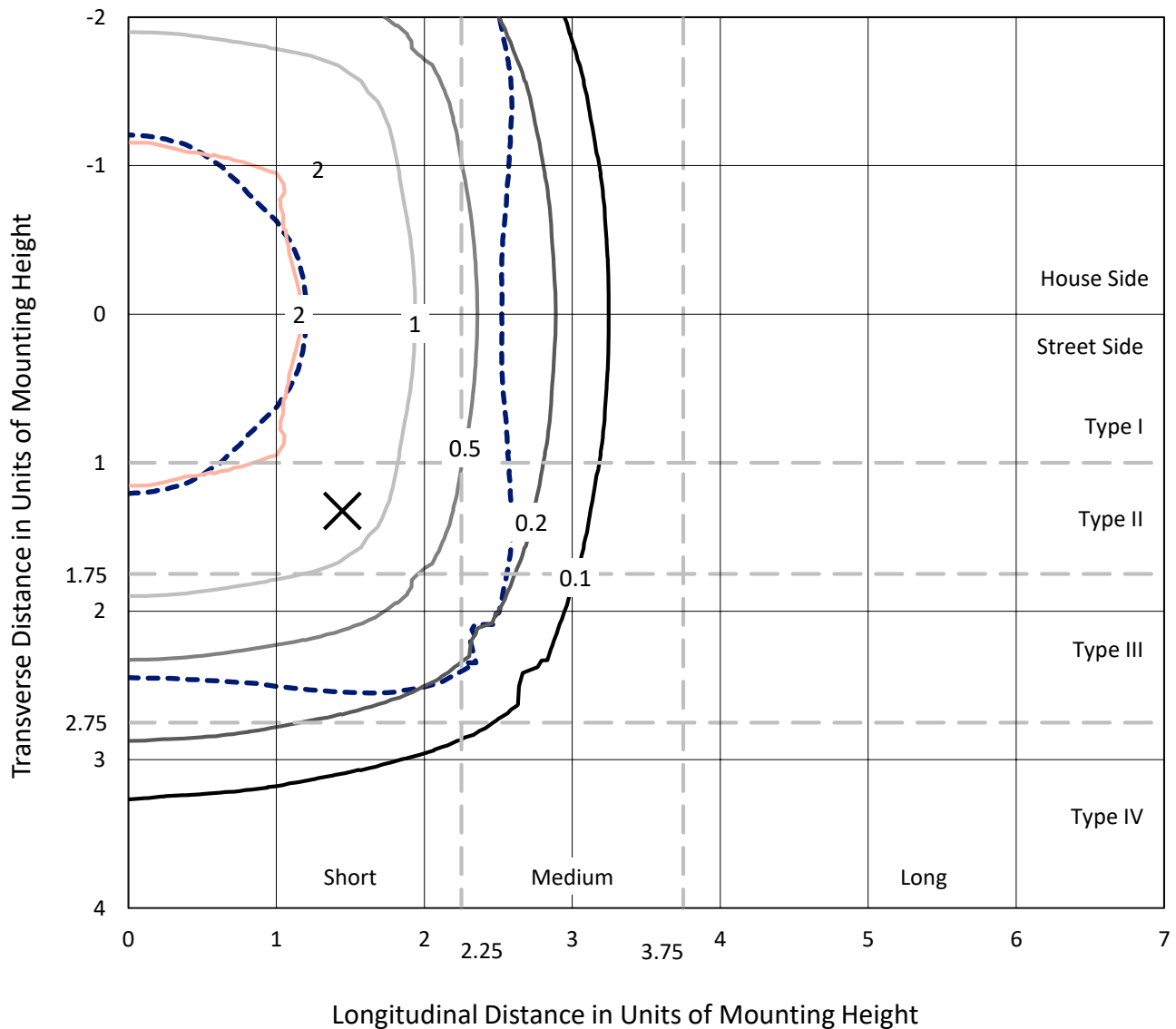


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

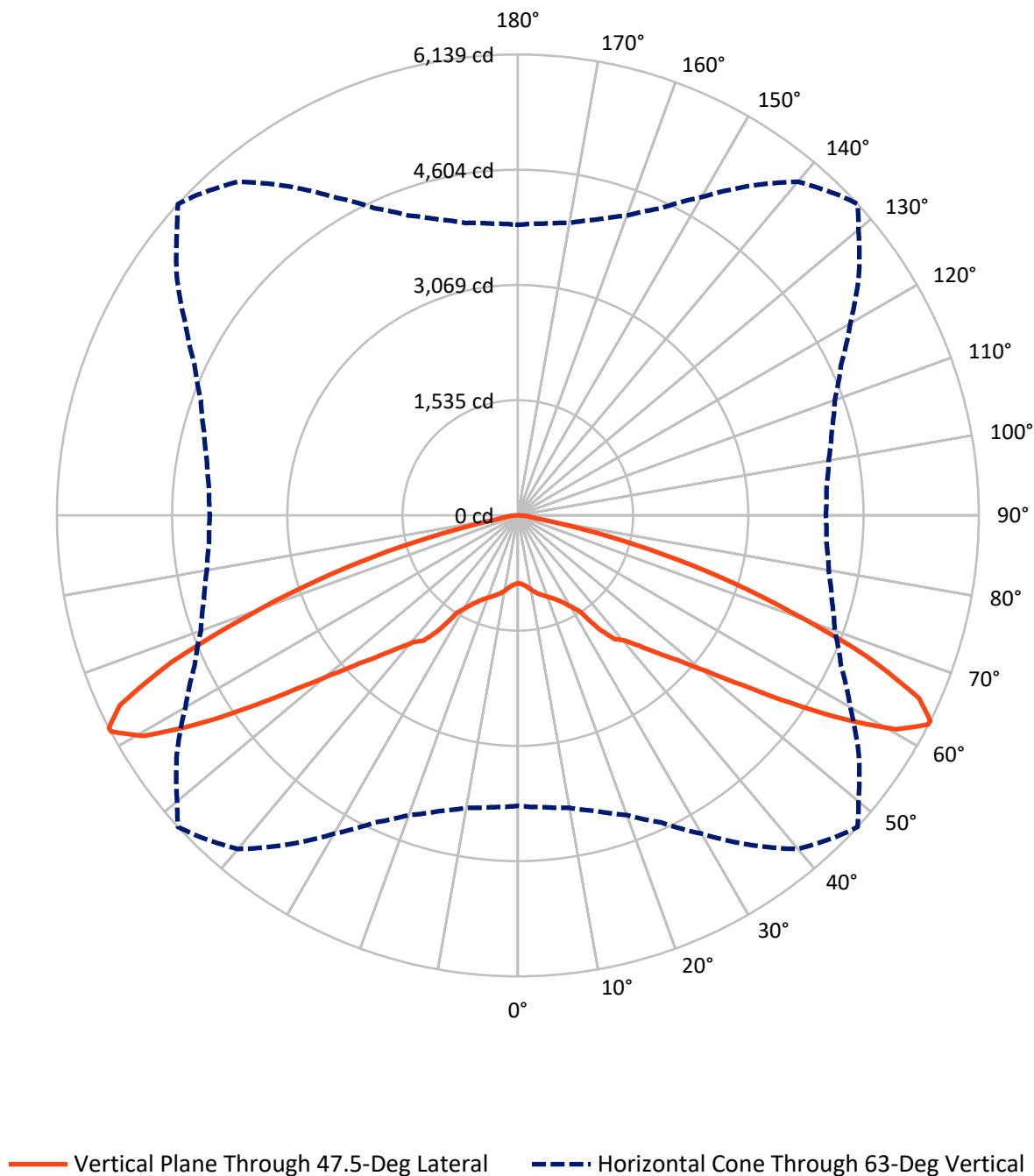


Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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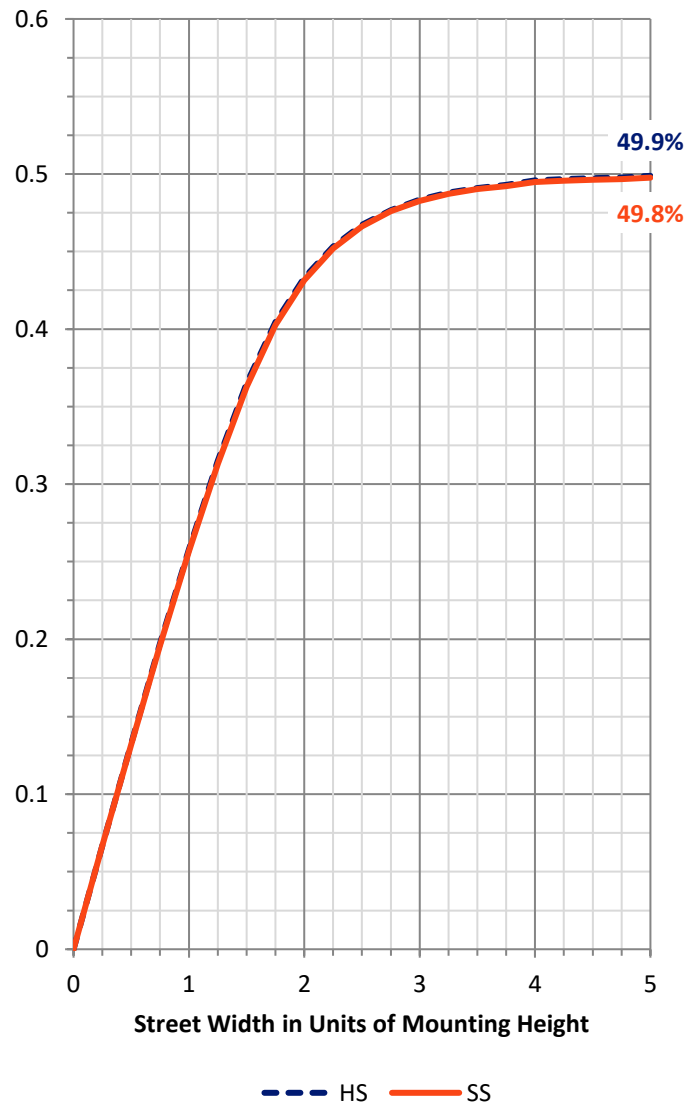
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6774.2	0.0	6774.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6774.2	0.0	6774.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	13548.4	0.0	13548.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	0.7
10°-20°	308.7	2.3
20°-30°	590.6	4.4
30°-40°	1129.7	8.3
40°-50°	1954.7	14.4
50°-60°	3510.6	25.9
60°-70°	4268.9	31.5
70°-80°	1541.7	11.4
80°-90°	152.7	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13548.4	100.0
0°-180°	13548.4	100.0

Coefficient of Utilization



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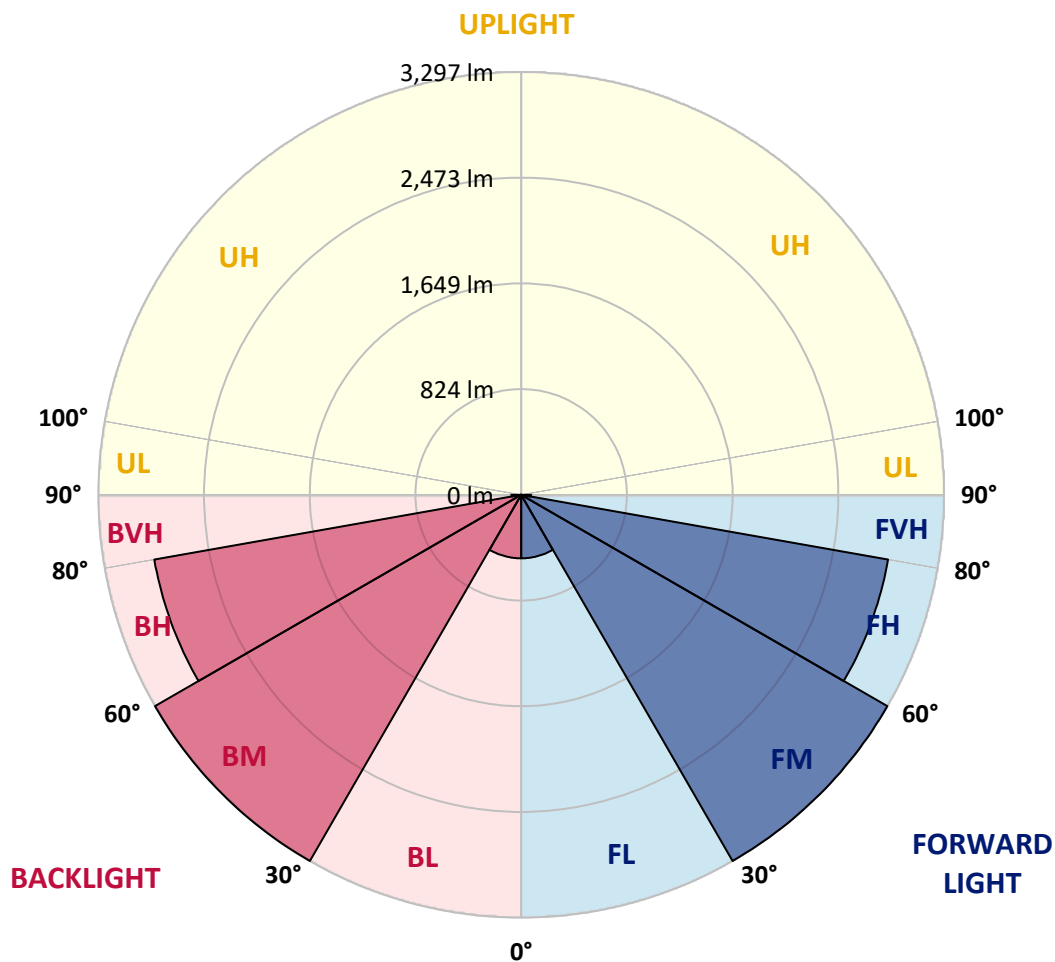
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	495.1	3.7			
FM	(30°-60°)	3297.5	24.3			
FH	(60°-80°)	2905.3	21.4			G2/5000
FVH	(80°-90°)	76.3	0.6			G1/100
BL	(0°-30°)	495.1	3.7	B1/500		
BM	(30°-60°)	3297.5	24.3	B3/5000		
BH	(60°-80°)	2905.3	21.4	B4/5000		G2/5000
BVH	(80°-90°)	76.3	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	904.7	904.7	904.7	904.7	904.7	904.7	904.7	904.7	904.7	904.7	904.7
2.5°	910.6	908.9	909.8	910.6	909.8	908.9	908.9	908.9	910.6	908.9	913.1
5°	928.4	926.7	927.5	927.5	927.5	925.9	925.9	925.9	925.0	925.9	935.2
7.5°	962.3	959.7	958.9	960.6	958.9	958.0	957.2	957.2	955.5	955.5	967.4
10°	1002.9	999.5	1001.2	1002.1	999.5	997.9	997.9	997.9	995.3	994.5	1009.7
12.5°	1047.8	1046.1	1046.1	1044.4	1043.6	1041.9	1041.1	1041.9	1038.5	1038.5	1053.8
15°	1091.0	1087.6	1088.5	1086.0	1084.3	1082.6	1081.7	1080.9	1079.2	1079.2	1088.5
17.5°	1130.8	1128.3	1127.5	1124.9	1122.4	1119.8	1118.1	1117.3	1114.8	1114.8	1123.2
20°	1172.4	1169.8	1168.1	1163.9	1159.6	1157.1	1153.7	1152.0	1148.6	1149.5	1158.8
22.5°	1219.8	1215.6	1212.2	1208.8	1201.2	1196.1	1191.8	1188.4	1186.8	1186.8	1199.5
25°	1283.3	1280.8	1275.7	1264.7	1255.4	1247.7	1241.0	1237.6	1234.2	1232.5	1252.0
27.5°	1361.3	1358.7	1351.9	1340.9	1328.2	1315.5	1307.9	1302.0	1297.7	1295.2	1323.1
30°	1464.6	1460.4	1454.4	1436.6	1425.6	1406.1	1397.7	1389.2	1379.9	1382.4	1415.5
32.5°	1667.0	1661.1	1642.5	1623.0	1589.1	1562.9	1535.7	1515.4	1495.9	1493.4	1529.0
35°	1850.9	1848.3	1844.9	1831.4	1818.7	1802.6	1789.9	1768.7	1750.9	1746.7	1846.6
37.5°	1950.0	1955.9	1950.8	1949.1	1949.1	1956.7	1980.5	2004.2	2021.1	2031.3	2087.2
40°	2101.6	2101.6	2095.7	2092.3	2085.5	2095.7	2105.8	2123.6	2131.2	2132.1	2188.8
42.5°	2273.6	2274.4	2268.5	2258.3	2254.9	2264.2	2277.8	2294.7	2304.9	2307.4	2373.5
45°	2465.0	2462.4	2457.4	2454.0	2456.5	2465.0	2481.1	2514.1	2529.4	2541.2	2613.2
47.5°	2672.5	2689.5	2675.1	2677.6	2677.6	2703.9	2740.3	2767.4	2792.0	2814.8	2891.1
50°	2944.4	2947.0	2949.5	2957.1	2962.2	2997.0	3042.7	3074.9	3110.5	3140.1	3264.6
52.5°	3307.8	3302.7	3315.5	3323.9	3352.7	3371.4	3447.6	3488.3	3537.4	3575.5	3757.6
55°	3742.4	3739.8	3758.5	3765.3	3803.4	3849.1	3933.8	4022.8	4106.6	4153.2	4402.3
57.5°	4054.1	4060.9	4093.1	4138.0	4212.5	4309.9	4436.1	4632.7	4791.9	4842.7	5117.2
60°	4122.7	4144.7	4193.0	4282.8	4410.7	4592.0	4840.2	5140.9	5432.3	5529.7	5787.2
62.5°	3930.4	3955.8	4027.0	4134.6	4301.4	4570.0	4928.3	5352.7	5785.5	6002.4	6132.0
63°	3869.4	3900.8	3954.1	4078.7	4248.1	4513.2	4894.4	5351.8	5800.8	6037.1	6138.8
65°	3583.1	3589.1	3668.7	3793.2	3983.8	4259.1	4643.7	5172.2	5670.3	5943.1	5872.8
67.5°	3083.4	3107.9	3174.8	3300.2	3485.7	3772.0	4189.6	4678.4	5116.3	5334.0	5019.8
70°	2491.2	2489.6	2572.6	2673.4	2836.9	3088.4	3454.4	3895.7	4243.0	4401.4	3875.4
72.5°	1779.7	1735.7	1796.6	1908.5	2042.3	2243.1	2532.8	2875.8	3186.7	3323.9	2833.5
75°	810.7	798.8	853.0	964.0	1099.5	1278.2	1516.3	1812.7	2110.9	2271.9	1805.1
77.5°	272.8	276.1	297.3	337.1	410.0	499.8	648.0	837.8	1079.2	1238.4	847.1
80°	183.0	188.1	194.8	200.8	209.2	222.8	255.0	304.1	378.6	458.3	267.7
82.5°	149.9	155.9	171.1	177.9	183.0	187.2	189.7	193.1	193.1	194.8	169.4
85°	107.6	117.7	138.1	150.8	155.9	159.3	163.5	168.6	160.9	154.2	131.3
87.5°	37.3	50.8	74.5	82.2	88.1	88.9	94.9	105.0	100.0	81.3	39.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	904.7	904.7	904.7	904.7	904.7	904.7	904.7	904.7	904.7
2.5°	908.9	908.1	908.9	909.8	909.8	909.8	910.6	911.5	911.5
5°	925.9	926.7	925.9	926.7	926.7	927.5	927.5	929.2	929.2
7.5°	954.7	956.3	955.5	957.2	957.2	958.9	958.0	960.6	960.6
10°	993.6	995.3	997.0	997.9	997.0	998.7	1000.4	1001.2	1000.4
12.5°	1037.7	1038.5	1037.7	1039.4	1039.4	1041.1	1041.1	1043.6	1043.6
15°	1078.3	1077.5	1076.6	1079.2	1080.9	1081.7	1083.4	1086.0	1083.4
17.5°	1114.8	1115.6	1113.9	1116.4	1119.8	1122.4	1124.1	1127.5	1126.6
20°	1151.2	1149.5	1151.2	1155.4	1158.8	1162.2	1165.6	1170.7	1169.8
22.5°	1186.8	1188.4	1192.7	1196.1	1202.0	1207.1	1211.3	1218.1	1220.6
25°	1236.7	1236.7	1243.5	1247.7	1256.2	1263.0	1272.3	1279.9	1284.2
27.5°	1300.3	1300.3	1307.9	1317.2	1329.9	1341.8	1351.9	1362.1	1360.4
30°	1386.7	1390.9	1397.7	1409.5	1426.5	1440.9	1454.4	1464.6	1465.4
32.5°	1500.2	1505.3	1525.6	1556.1	1591.7	1618.8	1639.1	1663.7	1667.0
35°	1757.7	1770.4	1796.6	1821.2	1835.6	1851.7	1861.9	1862.7	1864.4
37.5°	2028.7	2006.7	1986.4	1967.8	1959.3	1957.6	1957.6	1961.0	1962.7
40°	2127.9	2116.8	2107.5	2095.7	2099.1	2098.2	2104.1	2109.2	2112.6
42.5°	2297.3	2288.8	2280.3	2265.1	2273.6	2271.0	2279.5	2287.1	2291.3
45°	2533.6	2507.3	2488.7	2464.1	2472.6	2467.5	2467.5	2476.8	2478.5
47.5°	2794.5	2764.0	2725.9	2695.4	2685.2	2675.9	2684.4	2684.4	2675.1
50°	3107.1	3070.6	3025.8	2976.6	2959.7	2950.4	2953.8	2958.0	2931.7
52.5°	3531.5	3490.8	3427.3	3352.7	3336.6	3329.0	3327.3	3321.4	3314.6
55°	4106.6	4030.4	3952.5	3854.2	3824.5	3816.1	3816.9	3810.1	3826.2
57.5°	4785.1	4673.3	4493.7	4374.3	4303.1	4276.0	4251.5	4241.3	4242.2
60°	5456.9	5229.0	4960.5	4752.1	4603.0	4508.1	4433.6	4392.1	4380.2
62.5°	5889.7	5531.4	5128.2	4790.2	4545.4	4388.7	4271.0	4196.4	4172.7
63°	5923.6	5544.1	5112.9	4750.4	4492.9	4328.6	4204.9	4127.8	4102.4
65°	5849.9	5416.2	4913.9	4481.9	4199.8	4017.7	3883.8	3811.0	3791.5
67.5°	5277.3	4916.4	4404.8	3958.4	3673.8	3489.1	3335.8	3266.3	3244.3
70°	4293.0	4045.6	3626.3	3245.1	2980.0	2802.1	2647.1	2589.5	2588.7
72.5°	3182.5	2861.4	2611.5	2332.0	2100.7	1959.3	1824.6	1760.2	1728.0
75°	2105.0	1761.1	1481.5	1246.0	1015.6	888.6	737.0	671.7	633.6
77.5°	1060.5	786.1	563.3	390.5	303.3	249.0	227.9	216.9	216.0
80°	353.2	265.1	227.9	213.5	209.2	210.1	207.5	203.3	198.2
82.5°	195.7	205.8	207.5	201.6	201.6	198.2	194.8	178.7	170.3
85°	167.7	184.7	186.4	183.0	182.1	177.0	171.1	149.1	136.4
87.5°	105.0	121.1	118.6	105.9	116.9	109.3	103.3	66.9	49.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)